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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1909.0020002/JAG/CMB	APPLICATION NO. 09/830,967
	APPLICANT Carcagno <i>et al.</i>	
	FILING DATE May 3, 2001	GROUP To Be Assigned 1647

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
FH ↓	AA1	4,667,016	05/19/1987	Lai <i>et al.</i>	530	397	06/20/1985
	AB1	4,667,195	06/30/1987	Hewick <i>et al.</i>	530	397	01/11/1985
	AC1	4,703,008	10/27/1987	Lin	435	240.2	11/30/1984
	AD1	4,806,524	02/21/1989	Kawaguchi <i>et al.</i>	514	8	10/03/1985
	AE1	5,010,002	04/23/1991	Levinson <i>et al.</i>	435	69.2	03/22/1990
	AF1	5,547,933	08/20/1996	Lin	514	8	06/07/1995
	AG1	5,618,698	04/08/1997	Lin	435	69.4	06/06/1995
	AH1	5,688,679	11/18/1997	Powell	435	240.2	10/06/1993
	AI1	5,756,349	05/26/1998	Lin	435	325	06/06/1995
	AJ1	5,783,559	07/21/1998	Florin-Robertsson <i>et al.</i>	514	12	01/10/1994
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
FH ↓	AL1	WO 86/03520	06/19/1986	WIPO/PCT	X	X	Yes No
	AM1	WO 98/00530	01/08/1998	WIPO/PCT			Yes No
	AN1	WO 00/27419	05/18/2000	WIPO/PCT			Yes No
	AO1	WO 00/27869	05/18/2000	WIPO/PCT			Yes No
	AP1	WO 00/27997	05/18/2000	WIPO/PCT			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
FH ↓	AR	1	Andersen, D.C. and Goochee, C.F., "The effect of cell-culture conditions on the oligosaccharide structures of secreted glycoprotein," <i>Curr. Op. Biotech.</i> 5:546-549, Current Biology Ltd. (1994).
	AS	1	Bondurant, M.C. and Koury, M.J., "Anemia Induces Accumulation of Erythropoietin mRNA in the Kidney and Liver," <i>Mol. Cell. Biol.</i> 6:2731-3, American Society for Microbiology (1986).
	AT	1	Borsook, H., <i>et al.</i> , "Polycythemic Response in Normal Adult Rats to a Nonprotein Plasma Extract from Anemic Rabbits," <i>Blood</i> 9:734-742, Grune and Stratton, Inc. (1954).

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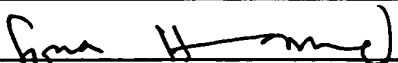
FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
FH	AL2	WO 00/28066	05/18/2000	WIPO/PCT	X	X	Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

FH	AR	2	Bowie, J.U., <i>et al.</i> , "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions," <i>Science</i> 247:1306-1310, American Association for the Advancement of Science (1990).
	AS	2	Brown, P.R. and Krstulovic, A.M., "Practical Aspects of Reverse-Phase Liquid Chromatography Applied to Biochemical and Biomedical Research," <i>Anal. Biochem.</i> 99:1-21, Academic Press, Inc. (1979).
	AT	2	Burg, J., <i>et al.</i> , "Human erythropoietin recombinant production by fermentation and protein purification using a series of chromatographic steps," <i>Chem. Abstracts</i> 126:315 Abstract No. 57095j, American Chemical Society (1997).

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
F4	AR	3	Busuttil, R.W., <i>et al.</i> , "The Cytological Localization of Erythropietin in the Human Kidney Using the Fluorescent Antibody Technique," <i>Proc. Soc. Exp. Biol. Med.</i> 137:327-330, Academic Press, Inc. (1971).
F4	AS	3	Busuttil, R.W., <i>et al.</i> , "Localization of Erythropietin in the Glomerulus of the Hypoxic Dog Kidney Using a Fluorescent Antibody Technique," <i>Acta Haemat.</i> 47:238-242, S. Karger (1972).
	AT	3	Carnot, M.P. and Deflandre, C., "Sur l'activité hémopoiétique 'du sérum au cours de la régénération du sang," <i>C.R. Acad. Sci.</i> 143:384-386, (1906).

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>4</u>	Carnot, M.P. and Deflandre, C., "Sur l'activité hémopoïétique des différents organes au cours de la régénération du sang," <i>C.R. Acad. Sci.</i> 143:432-435 (1906).
AS	<u>4</u>	Carnot, M.P., "Sur le Mécanisme de L'hyperglobulie Provoquée par le Sérum D'animaux en Rénovation Sanguine," <i>C.R.H. Sean. Mem. Soc. Biol.</i> 111:344-346, Libraires de L'Académie de Médecine (1906).
AT	<u>4</u>	Carnot, M.P., "Sur L'activité Cytopoïétique du Sang et des Organes Régénérés au Cours des Régénérations Viscérales," <i>C.R.H. Sean. Mem. Soc. Biol.</i> 111:463-465, Libraires de L'Académie de Médecine (1906).

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	AP						Yes No

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<i>Fix</i>	AR	<u>5</u>	Caro, J. and Erslev, A.J., "Biologic and immunologic erythropoietin in extracts from hypoxic whole rat kidneys and in their glomerular and tubular fractions," <i>J. Lab. Clin. Med</i> 103:922-931, C.V. Mosby Company (1984).
<i> </i>	AS	<u>5</u>	Caro, J., <i>et al.</i> , "Erythropoietin Production by an Established Kidney Proximal Tubule Cell Line (LLCPK ₁)," <i>Exp. Hematol</i> 12:357, Springer-Verlag (1984).
<i>↓</i>	AT	<u>5</u>	Caro, J., <i>et al.</i> , "Erythropoietin in liver tissue extracts and in liver perfusates from hypoxic rats," <i>Am. J. Physiol.</i> 244:E431-E434, American Physiological Society (1983).

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

F4 ↓ Y	AR	6	Dinkelaar, R.B., <i>et al.</i> , "Metabolic Studies on Erythropoietin (Ep): II. The Role of Liver and Kidney in the Metabolism of Ep," <i>Exp. Hematol.</i> 9:796-803, Allen Press, Inc. (1981).
	AS	6	Dornfest, B.S., <i>et al.</i> , "Hepatic production of erythropoietin in a phenylhydrazine-induced compensated hemolytic state in the rat," <i>J. Lab. Clin. Med.</i> 102:274-85, C.V. Mosby Company (1983).
	AT	6	Dornfest, B.S., <i>et al.</i> , "Recovery of an Erythropoietic Inducing Factor from the Regenerating Rat Liver," <i>Ann. Clin. Lab. Sci.</i> 11:37-46, Institute for Clinical Science (1981).

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FH 	AR	Z	Erslev, A., "Humoral Regulation of Red Cell Production," <i>Blood</i> 8:349-357, Grune and Stratton, Inc. (1953).
	AS	Z	Erslev, A.J., "In Vitro Production of Erythropoietin by Kidneys Perfused With a Serum-free Solution," <i>Blood</i> 44:77-85, Grune and Stratton, Inc. (1974).
	AT	Z	Erslev, A.J. and Caro, J., "Physiologic and Molecular Biology of Erythropoietin," <i>Med. Oncol. Tumor Pharmacother.</i> 3:159-164, Pergamon Press (1986).

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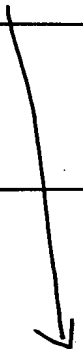
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

FH 	AR	8	Eschbach, J.W., <i>et al.</i> , "Correction of the Anemia of End-Stage Renal Disease with Recombinant Human Erythropoietin," <i>New Eng. J. Med.</i> 316:73-78, Massachusetts Medical Society (1987).
	AS	8	Fisher, J.W. and Birdwell, B.J., "The Production of an Erythropoietic Factor by the In Situ Perfused Kidney," <i>Acta. Haemat.</i> 26:224-232, S. Karger (1961).
	AT	8	Fisher, J.W., <i>et al.</i> , "Localization of Erythropoietin in Glomeruli of Sheep Kidney by Fluorescent Antibody Technique," <i>Nature</i> 205:611-612, Macmillan Magazines Ltd. (1965).

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
FH 	AR	2	Fisher, J.W., "Pharmacologic Modulation of Erythropoietin Production," <i>Ann. Rev. Pharmacol. Toxicol.</i> 28:101-122, Annual Reviews, Inc. (1988).
	AS	2	Frenkel, E.P., <i>et al.</i> , "Some Observations on the Localization of Erythropoietin," <i>Ann. N.Y. Acad. Sci.</i> 149:292-293, New York Academy of Sciences (1968).
	AT	2	Gordon, A.S., <i>et al.</i> , "A Plasma Extract with Erythropoietic Activity," <i>Proc. Soc. Exp. Biol. Med.</i> 86:255-258, Society for Experimental Biology and Medicine (1954).

EXAMINER <i>Fora H. Smith</i>	DATE CONSIDERED 4/24/03
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
FH 	AR	10	Han, F., <i>et al.</i> , "Cloning of a human erythropoietin cDNA and its expression in COS-7 cells," <i>Chem. Abstracts</i> Abstract No. 511352 (1996).
	AS	10	Hodgson, G. and Tohá, J., "The Erythropoietic Effect of Urine and Plasma of Repeatedly Bled Rabbits," <i>Blood</i> 9:299-309, Grune and Stratton, Inc. (1954).
	AT	10	Jacobs, K., <i>et al.</i> , "Isolation and characterization of genomic and cDNA clones of human erythropoietin," <i>Nature</i> 313:806-810, Macmillan Magazines Ltd. (1985).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

F14 ↓	AR	11	Jacobson, L.O., <i>et al.</i> , "Role of the Kidney in Erythropoiesis," <i>Nature</i> 179:633-634, Macmillan Magazines Ltd. (1957).
	AS	11	Jelkmann, W., <i>et al.</i> , "Extraction of Erythropoietin from Isolated Renal Glomeruli of Hypoxic Rats," <i>Exp. Hematol.</i> 11:581-588, Allen Press, Inc. (1983).
	AT	11	Jixian, D., <i>et al.</i> , "Study on a serum-free medium used for production of rHuEPO," <i>Bull. Acad. Mil. Med. Sci.</i> 21:244-246, Academy of Military Medical Sciences (1997).

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F14 ↓	AR	12	Kazal, L.A. and Erslev, A.J., "Erythropoietin Production in Renal Tumors," <i>Ann. Clin. Lab. Sci.</i> 5:98-109, Institute for Clinical Science (1975).
	AS	12	Krane, N.K., "The Role of Erythropoietin in the Anemia of Chronic Renal Failure," <i>H. Ford Hosp. Med. J.</i> 31:177-181, Henry Ford Hospital (1983).
	AT	12	Koury, S.T., <i>et al.</i> , "Localization of Erythropoietin Synthesizing Cells in Murine Kidneys by In Situ Hybridization," <i>Blood</i> 71:524-527, Grune and Stratton, Inc. (1988).

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FH ↓	AR	13	Koury, S.T., <i>et al.</i> , "Quantitation of Erythropoietin-Producing Cells in Kidneys of Mice by In Situ Hybridization: Correlation With Hematocrit, Renal Erythropoietin mRNA, and Serum Erythropoietin Concentration," <i>Blood</i> 74:645-651, Grune and Stratton, Inc. (1989).
	AS	13	Kuratowska, Z., <i>et al.</i> , "Studies on the Production of Erythropoietin by Isolated Perfused Organs," <i>Blood</i> 18:527-534, Grune and Stratton, Inc. (1961).
	AT	13	Kurtz, A., <i>et al.</i> , "Renal mesangial cell cultures as a model for study of erythropoietin production," <i>Proc. Natl. Acad. Sci. USA</i> 80:4008-4011, National Academy of Sciences (1983).

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1909.0020002/JAG/CMBAPPLICATION NO.
09/830,967APPLICANT
Carcagno *et al.*FILING DATE
May 3, 2001GROUP
To Be Assigned

1647

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

FA	AR	14	Lacombe, C., <i>et al.</i> , "Peritubular Cells Are the Site of Erythropoietin Synthesis in the Murine Hypoxic Kidney," <i>J. Clin. Invest.</i> 81:620-623, Rockefeller University Press (1988).
I	AS	14	Liu, P., <i>et al.</i> , "Hepatic Erythropoietin (Ep) Production Following Double Partial Hepatectomy in the Rat," <i>J. Surg. Oncol.</i> 15:121-132, Alan R. Liss, Inc. (1980).
↓	AT	14	Naughton, B.A., <i>et al.</i> , "Reticuloendothelial System (RES) Hyperfunction and Erythropoietin (Ep) Production in the Regenerating Liver," <i>J. Surg. Oncol.</i> 12:227-242, Alan R. Liss, Inc. (1979).

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
FH 	AR	15	Naughton, B.A., <i>et al.</i> , "Evidence for a Hepatic-Renal Antagonism in the Production of Hepatic Erythropoietin," <i>Ann. Clin. Lab. Sci.</i> 13:432-438, Institute for Clinical Science (1983).
	AS	15	Parsons, T.F., <i>et al.</i> , "Rapid and Easy Separation of the Subunits of Bovine and Human Glycoprotein Hormones by Use of High Performance Liquid Chromatography," <i>Endocrinology</i> 114: 2223-2227, J.B. Lippincott Co. (1984).
	AT	15	Reisman, K.R., "Studies on the Mechanism of Erythropoietic Stimulation in Parabioc Rats During Hypoxia," <i>Blood</i> 5:372-380, Grune and Stratton, Inc. (1950).

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Fit	AR	16	Schuster, J.H., <i>et al.</i> , "Physiologic Regulation and Tissue Localization of Renal Erythropoietin Messenger RNA," <i>Blood</i> 70:316-318, Grune and Stratton, Inc.(1987).
↓	AS	16	Sherwood, J.B., <i>et al.</i> , "Erythropoietin Production by Human Renal Carcinoma Cells in Culture," <i>Endocrinology</i> 99:504-510, J.B. Lippincott Co. (1976).
↓	AT	16	Takagaki, Y., <i>et al.</i> , "Amino Acid Sequence of the Membranous Segment of Rabbit Liver Cytochrome <i>b₅</i> ," <i>J. Biol. Chem.</i> 255:1536-1541, American Society of Biological Chemists, Inc. (1980).

EXAMINER Rona H. [Signature]	DATE CONSIDERED 4/24/03
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
FLA	AR	17	Werber, M.M., <i>et al.</i> , "Preliminary purification of two human blood cell hormones by hydrophobic interaction chromatography," <i>Chem. Abstracts</i> 100:77 Abstract No. 203779s, American Chemical Society (1984).
↓	AS	17	Pending Non-Provisional United States Patent Application No. 09/830,964, Carcagno <i>et al.</i> , filed May 3, 2001.
↓	AT	17	Pending Non-Provisional United States Patent Application No. 09/830,968, Carcagno <i>et al.</i> , filed May 3, 2001.

EXAMINER Gunn H. and	DATE CONSIDERED 4/24/03
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
FH ↓	AR	18	International Search Report of International Application No. PCT/US99/26238, March 7, 2000.
	AS	18	International Search Report of International Application No. PCT/US99/26241, March 7, 2000.
	AT	18	International Search Report of International Application No. PCT/US99/26240, February 22, 2000.

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
Fu	AR	19	International Search Report of International Application No. PCT/US99/26237, February 18, 2000.
	AS		
	AT		

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